

Appl. No. 09/922,549
Reply to Office action of January 17, 2006

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1 - 174 (canceled)

175. (new) An expression vector comprising a gene expression controlling region comprising a nucleotide sequence that hybridizes to the nucleotide sequence of SEQ ID NO: 67 or hybridizes to the complement of the nucleotide sequence of SEQ ID NO: 67, each hybridization in the presence of 1.0 M Na ion at a temperature of 60° C, wherein the expression vector is integrated into a cellular genome.

176. (new) The expression vector of claim 175 comprising a 5' matrix attachment region or an intrinsically curved region of DNA.

177. (new) The expression vector of claim 175 comprising a transcription enhancer.

178. (new) The expression vector of claim 175 comprising a negative regulatory element.

179. (new) The expression vector of claim 175 comprising at least one hormone responsive element.

180. (new) The expression vector of claim 175 comprising an avian CRI repeat element.

181. (new) The expression vector of claim 175 comprising a proximal lysozyme promoter or signal peptide-encoding region.

182. (new) The expression vector of claim 175 comprising a polyadenylation

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signal sequence.

183. (new) The expression vector of claim 182 wherein the polyadenylation signal sequence is derived from the SV 40 virus.

184. (new) The expression vector of claim 175 wherein the gene expression controlling region is operably linked to a nucleic acid molecule encoding a heterologous polypeptide.

185. (new) The isolated DNA molecule of claim 184 wherein the heterologous polypeptide is a protein of pharmaceutical interest.

186. (new) A tubular gland cell containing an expression vector comprising a gene expression controlling region comprising a nucleotide sequence that hybridizes to the nucleotide sequence of SEQ ID NO: 67 or hybridizes to the complement of the nucleotide sequence of SEQ ID NO: 67, each hybridization in the presence of 1.0 M Na ion at a temperature of 60° C.

187. (new) The tubular gland cell of claim 186 comprising a 5' matrix attachment region or an intrinsically curved region of DNA.

188. (new) The tubular gland cell of claim 186 comprising a transcription enhancer.

189. (new) The tubular gland cell of claim 186 comprising a negative regulatory element.

190. (new) The tubular gland cell of claim 186 comprising at least one hormone responsive element.

191. (new) The tubular gland cell of claim 186 comprising an avian CRI repeat

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element.

192. (new) The tubular gland cell of claim 186 comprising a proximal lysozyme promoter or signal peptide-encoding region.

193. (new) The tubular gland cell of claim 186 comprising a polyadenylation signal sequence.

194. (new) The tubular gland cell of claim 193 wherein the polyadenylation signal sequence is derived from the SV 40 virus.

195. (new) The tubular gland cell of claim 186 wherein the gene expression controlling region is operably linked to a nucleic acid molecule encoding a heterologous polypeptide.

196. (new) The tubular gland cell of claim 195 wherein the heterologous polypeptide is a protein of pharmaceutical interest.

197. (new) A DNA molecule integrated in a cellular genome comprising a gene expression controlling region operably linked to a nucleic acid molecule encoding a heterologous polypeptide, wherein the gene expression controlling region comprises a nucleotide sequence that hybridizes to the nucleotide sequence of SEQ ID NO: 67 or hybridizes to the complement of the nucleotide sequence of SEQ ID NO: 67, each hybridization in the presence of 1.0 M Na ion at a temperature of 60° C.

198. (new) The DNA molecule of claim 197 comprising a 5' matrix attachment region or an intrinsically curved region of DNA.

199. (new) The DNA molecule of claim 197 comprising a transcription enhancer.

200. (new) The DNA molecule of claim 197 comprising a negative regulatory

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element.

201. (new) The DNA molecule of claim 197 comprising at least one hormone responsive element.

202. (new) The DNA molecule of claim 197 comprising an avian CRI repeat element.

203. (new) The DNA molecule of claim 197 comprising a proximal lysozyme promoter or signal peptide-encoding region.

204. (new) The DNA molecule of claim 197 comprising a polyadenylation signal sequence.

205. (new) The DNA molecule of claim 204 wherein the polyadenylation signal sequence is derived from the SV 40 virus.

206. (new) The isolated DNA molecule of claim 197 wherein the heterologous polypeptide is a protein of pharmaceutical interest.

207. (new) A tubular gland cell containing a DNA molecule comprising a gene expression controlling region operably linked to a nucleic acid molecule encoding a heterologous polypeptide, wherein the gene expression controlling region comprises a nucleotide sequence that hybridizes to the nucleotide sequence of SEQ ID NO: 67 or hybridizes to the complement of the nucleotide sequence of SEQ ID NO: 67, each hybridization in the presence of 1.0 M Na ion at a temperature of 60° C.

208. (new) The tubular gland cell of claim 207 comprising a 5' matrix attachment region or an intrinsically curved region of DNA.

209. (new) The tubular gland cell of claim 207 comprising a transcription

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enhancer.

210. (new) The tubular gland cell of claim 207 comprising a negative regulatory element.

211. (new) The tubular gland cell of claim 207 comprising at least one hormone responsive element.

212. (new) The tubular gland cell of claim 207 comprising an avian CRI repeat element.

213. (new) The tubular gland cell of claim 207 comprising a proximal lysozyme promoter or signal peptide-encoding region.

214. (new) The tubular gland cell of claim 207 comprising a polyadenylation signal sequence.

215. (new) The tubular gland cell of claim 214 wherein the polyadenylation signal sequence is derived from the SV 40 virus.

216. (new) The tubular gland cell of claim 207 wherein the heterologous polypeptide is a protein of pharmaceutical interest.